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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/892,227	06/25/2001	Hermann Bujard	BBI-013C2CN2	7548
959	7590	01/25/2005	EXAMINER	
LAHIVE & COCKFIELD, LLP.			HAMA, JOANNE	
28 STATE STREET			ART UNIT	
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1632

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/892,227

Applicant(s)

BUJARD ET AL.

Examiner

Joanne Hama, Ph.D.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 23-26 and 31-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 23-26 and 31-40 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>10/15/02</u> .  | 6) <input type="checkbox"/> Other: _____                                    |

This Application is a CON of 09/163,269, filed September 29, 1998, now U.S. Patent 6,252,136, which is a CON of 08/481,970, filed June 7, 1995, now U.S. Patent 5,859,310, which is a CIP of 08.260,452, filed June 14, 1994, now U.S. Patent 5,650,298, which is a CIP of 08/076,327, filed June 14, 1993, now abandoned.

According to the Amendment filed by the Applicant November 15, 2004, claims 23-40 were pending in the Application. Applicant has cancelled claims 27-30. Claims 23, 24, 35, 36 have been amended.

Claims 23-26, 31-40 are pending.

#### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on November 15, 2004 has been entered.

#### ***Information Disclosure Statement***

The information disclosure statement filed October 15, 2002 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that

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portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered. The Examiner has considered the publications and patents provided in instant application and the parent application, 09/163,269, and has indicated so on the IDS. All other publications and patents not provided by the Applicants have not been considered.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 23-26, 31-40 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a transgenic mouse having a transgene integrated into the genome of the mouse and also having a tet operator-linked gene of interest in the genome of the mouse, wherein: the transgene comprises a transcriptional regulatory element functional in cells of the animal operatively linked to a polynucleotide sequence encoding a fusion protein which activates transcription in eukaryotic cells, the fusion protein comprising a first polypeptide which is a Tet repressor that binds to a tet operator sequence, operatively linked to a heterologous second polypeptide which activates transcription in eukaryotic cells, wherein the transgene is expressed in cells of the animal at a level sufficient to produce amounts of the fusion protein that are sufficient to activate transcription of the tet operator-linked gene of interest, wherein gene of interest confers a detectable and functional phenotype on the mouse when

expressed in the cells of the mouse, wherein the level of transcription of the tet operator-linked gene of interest is increased or decreased in the absence or presence of tetracycline or a tetracycline analogue, does not reasonably provide enablement for any other embodiments. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

Enablement is considered in view of the Wands factors (MPEP 2164.01(a)). The court in Wands states: "Enablement is not precluded by the necessity for some experimentation such as routine screening. However, experimentation needed to practice the invention must not be undue experimentation. The key word is 'undue,' not 'experimentation.' " (*Wands*, 8 USPQ2d 1404). Clearly, enablement of a claimed invention cannot be predicated on the basis of quantity of experimentation required to make or use the invention. "Whether undue experimentation is needed is not a single, simple factual determination, but rather is a conclusion reached by weighing many factual considerations." (*Wands*, 8 USPQ2d 1404). The factors to be considered in determining whether undue experimentation is required include: (1) the quantity of experimentation necessary, (2) the amount or direction or guidance presented, (3) the presence or absence of working examples, (4) the nature of the invention, (5) the state of the prior art, (6) the relative skill of those in the art, (7) the predictability or unpredictability of the art, and (8) the breadth of the claims. While all of these factors are considered, a sufficient amount for a *prima facie* case are discussed below.

The Applicants' arguments filed November 15, 2004 have been fully considered, but they are not persuasive. The Examiner maintains that the claims, written broadly, are to any animal made with the tet system described by the Applicants, including the animals with no utility.

The Applicants state that the claims describe a non-human transgenic animal having a transgene integrated into the genome of the animal, and in one embodiment, a tet operator-linked gene in the genome of the animal. The claimed transgene comprises a transcriptional regulatory element functional in cells of the non-human animal operatively linked to a polynucleotide sequence encoding a fusion protein which activates transcription of a tet-operator linked gene, wherein the fusion protein comprises a first polypeptide which is a Tet repressor, operatively linked to a second polypeptide which directly or indirectly activates transcription of a tet operator-linked gene at a **detectable level** (Applicants' emphasis) (page 6, fourth paragraph, to page 7 first paragraph). In addition to this, the Applicants state that the pending claims do not require a phenotype, but rather recite that the transgene activate transcription of a tet operator-linked gene at a **detectable level** (page 7, first full paragraph, lines 6-8).

While the Applicant argues that the pending claims do not require a phenotype, the Examiner disagrees. The claims are to the animal and with it, all the properties inherent to the animal. In particular, if the Applicants are claiming an animal system encompassing the ability to increase or decrease transcription of the tet-operator-linked gene (e.g. claim 23, lines 2-3), then the Applicants must account for this aspect of the invention. As a result of changing expression of the tet-operator-linked gene,

phenotypes in the animal are generated. Regardless whether the Applicants intended to claim the phenotypes, they are inherent to the transgenic animal and must be accounted for.

With regards to the situation of directing the definition of “phenotype” to the change of gene expression of the gene under tet operator control, is that regardless of changing the expression level of the gene under the control of the tet operator, the end result remains as to whether or not the skilled artisan is enabled to use the animal at hand. The enablement issue that was prompted in previous the Office Action, March 15, 2004, states that the Examiner asserts that the issue is not whether or not transgenic non-human animals other than mice can be created as argued by Applicants. The issue is whether expression of a tet-operator-linked gene will produce a reproducible phenotype when expressed in different species of transgenic non-human animals. With regards to this, the Examiner points the Applicant to the work carried out by Hammer, et al. (1990, Cell 63:1099-1112). Hammer et al. demonstrated that transgenic mice that overexpressed human HLA-B27 and human  $\beta$ 2-microglobulin (h $\beta$ 2m) were not a good model for a human disease, spondyloarthropathies, whereas a rat that overexpressed human HLA-B27 and human  $\beta$ 2-microglobulin (h $\beta$ 2m) was (page 1099, second column, second paragraph). In this example, despite expressing the same human genes, the transgenic mouse and rat had different phenotypes. Although the Applicants stress that the “phenotype” is the change in gene expression of the gene under tet operator control, nothing in the specification teaches a skilled artisan what to do with an animal that has changes in gene expression but has no subsequent

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biological mechanism, i.e., phenotype, to study. The fact that not every gene that is targeted by this tet system will result in an animal with a phenotype, is the issue needs to be addressed, in order for any animal to be encompassed by the claims. It should be pointed out that if an animal with changes in gene expression, but has no discernable phenotype is claimed by an Applicant, that animal would raise issues of specific and substantial utility under 35 U.S.C. § 101. It then follows that a skilled artisan would then not be enabled to use an animal without a phenotype because no comparative studies could be carried out between a wild type animal and the mutant. Although the Applicant has amended the claims to emphasize the "phenotype" of altered level of operator-linked gene expression in any animal, the claims still encompass animals made with the tet system that have no discernable biological mechanism to study. For this reason, the claims are not enabled.

In view of the quantity of experimentation necessary, lack working examples, nature of the invention, state of the prior art, the unpredictability of the art, and breadth of the claims, at the time of the claimed invention was made, it would have required undue experimentation to make and/or use the invention as claimed.

Claims 23-26, 31-40 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.



The final Written Description Examination guidelines that were published on January 5, 2001 (66 FR 1099; available at: <http://www.uspto.gov/web/menu/current.html#register>).

*Vas-Cath Inc. v. Mahurkar*, 19USPQ2d 1111 (Fed. Cir. 1991), clearly states that “applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of *the invention*. The invention is, for purposes of the ‘written description’ inquiry, *whatever is now claimed*.” *Vas-Cath Inc. v. Mahurkar*, 19USPQ2d at 1117. The specification does not “clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed.” *Vas-Cath Inc. v. Mahurkar*, 19USPQ2d at 1116.

While the specification is adequate in teaching a transgenic mouse having a transgene integrated into the genome of the mouse and also having a tet operator-linked gene of interest in the genome of the mouse, wherein: the transgene comprises a transcriptional regulatory element functional in cells of the animal operatively linked to a polynucleotide sequence encoding a fusion protein which activates transcription in eukaryotic cells, the fusion protein comprising a first polypeptide which is a Tet repressor that binds to a tet operator sequence, operatively linked to a heterologous second polypeptide which activates transcription in eukaryotic cells, wherein the transgene is expressed in cells of the animal at a level sufficient to produce amounts of the fusion protein that are sufficient to activate transcription of the tet operator-linked gene of interest, wherein said gene of interest confers a detectable and functional

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phenotype on the mouse when expressed in the cells of the mouse, wherein the level of transcription of the tet operator-linked gene of interest is increased or decreased in the absence or presence of tetracycline or a tetracycline analogue, the specification fails to adequately describe other species of animals having the same embodiments of the mouse described. The claimed invention as a whole is not adequately described if the claims require essential or critical elements which are not adequately described in the specification and which are not conventional in the art as of Applicants effective filing date. Possession may be shown by actual reduction to practice, clear depiction of the invention in a detailed drawing, or by describing the invention with sufficient relevant identifying characteristics (as it relates to the claimed invention as a whole) such that a person skilled in the art would recognize that the inventor had possession of the claimed invention. Pfaff v. Wells Electronics, Inc., 48 USPQ2d 1641, 1646 (1998). In the instant case, Applicants have disclosed a transgenic mouse comprising a tet system described by the Applicants. However, while the specification teaches examples of a mouse wherein the tetO-linked gene is luciferase (page 42, "Construction of P<sub>hCMV</sub>" and the Luciferase Reporter Plasmid"), the specification does not generally teach a skilled artisan mice wherein the tetO-linked gene is any gene. The issue at hand is not that a skilled artisan does not know how to substitute genes, one for the other. Rather, the situation is that the specification has not accounted for every gene under the tetO control and the subsequent phenotype that ensues when the gene under tetO control is expressed (or repressed). The primary issue is that not all genes will result in a phenotype and not all genes will predictably result in a phenotype, even though another

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species of animals has demonstrated a phenotype for that gene (e.g. see Hammer, et al. (1990, Cell 63:1099-1112)). The skilled artisan cannot envision what genes will result in phenotypes in which animals and therefore conception is not achieved until reduction to practice has occurred, regardless of the complexity or simplicity of the method used. Adequate written description requires more than a mere statement that it is part of the invention and reference to a potential method of identifying it. See *Fiers v. Revel*, 25 USPQ2d 1601, 1606 (Fed. Cir. 1993) and *Amgen Inc. v. Chugai Pharmaceutical Co. Ltd.*, 18 USPQ2d 1016 (Fed. Cir. 1991).

One cannot describe what one has not conceived. See *Fiddes v. Baird*, 30 USPQ2d 1481, 1483. In *Fiddes*, claims directed to mammalian FGF's were found to be unpatentable due to lack of written description for that broad class. The specification provided only the bovine sequence.

Therefore, only a transgenic mouse having a transgene integrated into the genome of the mouse and also having a tet operator-linked gene of interest in the genome of the mouse, wherein: the transgene comprises a transcriptional regulatory element functional in cells of the animal operatively linked to a polynucleotide sequence encoding a fusion protein which activates transcription in eukaryotic cells, the fusion protein comprising a first polypeptide which is a Tet repressor that binds to a tet operator sequence, operatively linked to a heterologous second polypeptide which activates transcription in eukaryotic cells, wherein the transgene is expressed in cells of the animal at a level sufficient to produce amounts of the fusion protein that are sufficient to activate transcription of the tet operator-linked gene of interest, wherein said

gene of interest confers a detectable and functional phenotype on the mouse when expressed in the cells of the mouse, wherein the level of transcription of the tet operator-linked gene is increased or decreased in the absence or presence of tetracycline or a tetracycline analogue meets the written description provision of 35 U.S.C. §112, first paragraph. Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 U.S.C. §112 is severable from its enablement provision (see page 1115).

Applicants' attention is drawn to the decision of *The Regents of the University of California v. Eli Lilly and Company* (CAFC, July 1997) wherein it was stated:

In claims involving chemical materials, generic formulas usually indicate with specificity what the generic claims encompass. One skilled in the art can distinguish such a formula from others and can identify many of the species that the claims encompass. Accordingly, such a formula is normally an adequate written description of the claimed genus. In claims to genetic material, however, a generic statement such as "vertebrate insulin cDNA" or "mammalian cDNA," without more, is not an adequate written description of the genus because it does not distinguish the claimed genus from others, except by function. It does not specifically define any of the genes that fall within its definition. It does not define any structural features commonly possessed by members of the genus that distinguish them from others. One skilled in the art therefore cannot, as one can do with a fully described genus, visualize or recognize the identity of the members of the genus. A definition by function, as we have previously indicated, does

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not suffice to define the genus because it is only an indication of what the gene does, rather than what it is. See *Fiers*, 984 F.2d at 1169-71, 25 USPQ2d at 1605-06 (discussing *Amgen*). It is only a definition of a useful result rather than a definition of what it achieves as a result. Many such genes may achieve that result. The description requirement of the patent statute requires a description of an invention, not an indication of a result that one might achieve if one made that invention. See *In re Wilder*, 736 F.2d 1516, 222 USPQ 369, 372-373 (Fed. Cir. 1984) (affirming rejection because the specification does "little more than outlin[e] goals appellants hope the claimed invention achieves and the problems the invention will hopefully ameliorate."). Accordingly, naming a type of material generally known to exist, in the absence of knowledge as to what that material consists of, is not a description of that material.

Because Applicants have failed to provide an adequate written description of the materials used in the compositions and methods claimed and because there is no evidence that Applicants possessed any other animals made with the Applicants' tet system beyond those disclosed and/or known in the prior art, the rejected claims fail to meet the written description requirement under 35 U.S.C. 112, first paragraph.

Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 U.S.C. §112 is severable from its enablement provision (see page 1115).

### ***Double Patenting***

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11

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F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 23-26, 31-40 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3-5, 9-11, 13, 15, 16, 18-20 of U.S. Patent No. 5,859,310, patented January 12, 1999, for reasons of record set forth in the previous office action of June 17, 2003, pages 11-12.

It has been noted that the Applicants have stated on January 8, 2004 and on November 15, 2004, that upon indication that the pending claims are allowable will the terminal disclaimer be submitted.

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 23, 36 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 37, 44 of copending Application No. 09/874,389. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented. Claim 23 of the instant application is to a transgenic non-human animal having a transgene integrated into the genome of the non-human animal and also having a tet operator-linked gene in the genome of the non-human animal, wherein the transgene is comprised of a tet repressor fused to a second polypeptide that activates transcription in eukaryotic cells, and wherein the transgene is expressed in cells at a level sufficient to produce amounts of fusion protein that activate transcription of the tet-operator gene, and wherein in the absence of tetracycline or tetracycline analogue the fusion protein binds to the tet operator-linked gene and activates transcription. Claim 44 of '389 is comprised of the same embodiments of claim 23. Claim 36 of the instant application is a transgenic non-human animal selected from the group consisting of a mouse, a cow, a sheep, a goat, and a pig having a transgene integrated into the genome of the non-human animal, wherein the transgene is comprised of a transcriptional regulatory element functional in cells of the non-human animal and of a fusion protein which activates transcription of a tet operator linked gene, wherein the fusion protein is comprised of a Tet repressor operatively linked to a polypeptide which activates transcription in cells, and wherein the transgene is expressed in cells of the non-human animal. Claim 37 of '389 broadly encompasses claim 36, as the claim is to any non-human transgenic animal. Claim 37 is comprised of the same embodiments of claim 36.

### ***Conclusion***

No claims allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joanne Hama, Ph.D. whose telephone number is 571-272-2911. The examiner can normally be reached Monday through Thursday and alternate Fridays from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, Ph.D. can be reached on 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has



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been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

JH

Joe Waites  
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